ORAL AND POSTER PRESENTATION (INTERNATIONAL) SUMMARY

Presenter: 37 (Oral: 24, Poster: 13)
Co-author: 54 (Invited: 6, Oral: 13, Poster: 35)

2017

91. Thermoelectric Properties of PbTe-based Materials Fabricated by a Melt Spinning Method
   Preeyakarn EAKSUWANCHAI (Osaka Univ.), Ken KUROSAKI (Osaka Univ.), Masaru KUNII (AIST), Michihiro OHTA (AIST), Priyanka JOOD (AIST), Yuji OHISHI (Osaka Univ.), Hiroaki MUTA (Osaka Univ.), Shinsuke YAMANAKA (Osaka Univ.)
   146th Annual Meeting and Exhibition, Minerals, Metals & Materials Society (TMS2017), San Diego, California, USA, February 26–March 2, 2017
   Minerals, Metals & Materials Society
   March 2, 2017, Poster, Co-author
   [Poster, Co-author 35]
2016

90. **Thermoelectric Characteristics of Transition Metal Sulfide Nano-bulk Materials**

Asae ITO (JAIST), Chiko SHIJIMAYA (JAIST), Koichi HIGASHIMINE (JAIST), Michihiro OHTA (AIST), Masanobu MIYATA (JAIST), Derrick MOTT (JAIST), Takeo AKATSUKA (Nippon Shokubai), Hironobu ONO (Nippon Shokubai), Mikio KOYANO (JAIST), Shinya MAENOSONO (JAIST)

2016 MRS Fall Meeting & Exhibit, Materials Research Society, Boston, Massachusetts, USA, November 27-December 2, 2016

Materials Research Society

November 29, 2016, Poster, Co-author

[Poster, Co-author 34]

89. **Cu-S Based Synthetic Minerals Promising as Medium-high Temperature Thermoelectric Materials**

Koichiro SUEKUNI (Hiroshima Univ.), Toshiro TAKABATAKE (Hiroshima Univ.), Michihiro OHTA (AIST)

14th European Conference on Thermoelectrics (ECT2016), Lisbon, Portugal, September 20–23, 2016

European Thermoelectric Society

September 21, 2016, Invited, Co-author

[Invited, Co-author 6]

88. **Cu-S Based Synthetic Minerals: Environmentally Benign Thermoelectric Materials**

Koichiro SUEKUNI (Hiroshima Univ.), Toshiro TAKABATAKE (Hiroshima Univ.), Michihiro OHTA (AIST)

35th International Conference and 1st Asia Conference on Thermoelectrics (ICT/ACT 2016), Wuhan, China, May 29–June 2, 2016

International Thermoelectric Society

June 2, 2016, Invited, Co-author

[Invited, Co-author 5]

87. **Thermoelectric modules based on Colusites Cu_{26}A_{2}E_{6}S_{32} (A: V, Nb, Ta, E: Si, Ge, Sn)**

Yohan BOUYRIE (AIST), Yuta KIKUCHI (AIST), Makoto AIHARA (AIST), Koichiro SUEKUNI (Hiroshima Univ.), Toshiro TAKABATAKE (Hiroshima Univ.), Atsushi YAMAMOTO (AIST), Michihiro OHTA (AIST)

35th International Conference and 1st Asia Conference on Thermoelectrics (ICT/ACT 2016), Wuhan, China, May 29–June 2, 2016

International Thermoelectric Society

May 30, 2016, Poster, Co-author

[Poster, Co-author 33]
86. **ITS Outstanding Poster Award**

*Cu₂MTi₃S₈ (M = Mn, Fe, Co, Ni) Thiospinels: Environmentally Benign n-type Thermoelectric Material*

Katsuki HASHIKUNI (Hiroshima Univ.), Koichiro SUEKUNI (Hiroshima Univ.), Hirotaka NISHIATE (AIST), Michihiro OHTA (AIST), Toshiro TAKABATAKE (Hiroshima Univ.)

35th International Conference and 1st Asia Conference on Thermoelectrics (ICT/ACT 2016), Wuhan, China, May 29–June 2, 2016

International Thermoelectric Society

May 30, 2016, Poster, Co-author

[Poster, Co-author 32]

85. **The Observation of Electrode Interface for New Class Thermoelectric Materials**

Haruno KUNIOKA (Tokyo Univ. of Sci.), Yuta KIKUCHI (AIST), Yohan BOUYRIE (AIST), Makoto AIHARA (AIST), Michihiro OHTA (AIST), Haruhiko OBARA (AIST), Atsushi YAMAMOTO (AIST), Tsutomu IIDA (Tokyo Univ. of Sci.)

35th International Conference and 1st Asia Conference on Thermoelectrics (ICT/ACT 2016), Wuhan, China, May 29–June 2, 2016

International Thermoelectric Society

May 30, 2016, Poster, Co-author

[Poster, Co-author 31]

84. **Poster Presentation Award**

*Some Principles of Figure of Merit Enhancement in Thermoelectric Solid Solutions Based on Gd and Dy Sulfides*

Aleksandr V. SOTONICOV (Nikolaev IIC SB RAS), Vladimir V. BAKOVETS (Nikolaev IIC SB RAS), Michihiro OHTA (AIST), Priyanka JOOD (AIST)

Japan-Russia Joint Seminar "Advanced Materials Synthesis Process and Nanostructure" in conjunction with 2015 Annual Meeting of Excellent Graduate Schools for "Materials Integration Center" and "Materials Science Center", Sendai, Japan, March 18–19, 2016

"Re-Inventing Japan Project", Japan Society for the Promotion of Science

March 19, 2016, Poster, Co-author

[Poster, Co-author 30]
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<th>Title</th>
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<tr>
<td>83</td>
<td>Preparation of Higher Manganese Silicide Sintered Compacts Using Reactive Sintering and Their Thermoelectric Properties</td>
<td>Hiroyuki KONDO (Muroran-IT), Shinji HIRAI (Muroran-IT), Michihiro OHTA (AIST)</td>
<td>2015 MRS Fall Meeting &amp; Exhibit, Materials Research Society, Boston, Massachusetts, USA, November 29-December 4, 2015</td>
<td>December 3, 2015, Poster, Co-author [Poster, Co-author 29]</td>
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<td>82</td>
<td>Enhanced Thermoelectric Performance of Tetrahedrites and Colusites and Conversion Efficiency of Their Single-leg Modules</td>
<td>Michihiro OHTA (AIST), Yuta KIKUCHI (AIST), Makoto AIHARA (AIST), Xiaokai HU (AIST), Atsushi YAMAMOTO (AIST), Koichiro SUEKUNI (Hiroshima Univ.), Toshiro TAKABATAKE (Hiroshima Univ.)</td>
<td>2015 MRS Fall Meeting &amp; Exhibit, Materials Research Society, Boston, Massachusetts, USA, November 29-December 4, 2015</td>
<td>December 2, 2015, Oral, Presenter [Oral, Presenter 24]</td>
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<td>79</td>
<td>Enhanced Thermoelectric Performance of Layered Sulfides through All-scale Hierarchical Architecturing</td>
<td>Priyanka JOOD (AIST), Michihiro OHTA (AIST), Oleg LEBEDEV (CRISMAT), David BERTHEBAUD (CRISMAT)</td>
<td>Réunion Thermoélectricité Caen, Laboratoire CRISMAT, UMR 6508 CNRS/ENSICAEN, Caen, France, October 13–14, 2015</td>
<td>October 13, 2015, Oral, Co-author [Oral, Co-author 13]</td>
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<td>78</td>
<td>High Throughput Screening of Thermoelectric Materials - Preparation and Measurement of Ternary Thin Film Library</td>
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77. High-performance Thermoelectric Modules Based on Nanostructured PbTe

Michihiro OHTA (AIST), Xiaokai HU (AIST), Priyanka JOOD (AIST), Masaru KUNII (AIST), Kazuo NAGASE (AIST), Hirotaka NISHIATE (AIST), Mercouri G. KANATZIDIS (Northwestern Univ./ANL), Atsushi YAMAMOTO (AIST)

34th International Conference on Thermoelectrics and 13th European Conference on Thermoelectrics (ICT&ECT2015), International Thermoelectric Society, Dresden, Germany, June 28–July 2, 2015

July 2, 2015, Oral, Co-author [Oral, Co-author 12]

76. Synthetic Colusite Cu_{26}V_{5}Sn_{6}S_{32}: High-performance Thermoelectric Mineral

Koichiro SUEKUNI (Hirosima Univ.), Fiseong S. KIM (Hirosima Univ.), Hirotaka NISHIATE (AIST), Michihiro OHTA (AIST), Hiromi I. TANAKA (Hirosima Univ.), Toshiro TAKABATAKE (Hirosima Univ.)

34th International Conference on Thermoelectrics and 13th European Conference on Thermoelectrics (ICT&ECT2015), International Thermoelectric Society, Dresden, Germany, June 28–July 2, 2015

July 2, 2015, Oral, Co-author 11 [Oral, Co-author 11]

75. Hierarchical Structuring of Misfit Layered Sulfides (LaS)_{1+m} (TS_{2}) (T = Nb, Cr) to Enhance Thermoelectric Properties

Priyanka JOOD (AIST), Michihiro OHTA (AIST), Oleg I. LEBEDEV (CRISMAT), Hirotaka NISHIATE (AIST), Atsushi YAMAMOTO (AIST), David BERTHEBAUD (CRISMAT)

34th International Conference on Thermoelectrics and 13th European Conference on Thermoelectrics (ICT&ECT2015), International Thermoelectric Society, Dresden, Germany, June 28–July 2, 2015

June 30, 2015, Oral, Co-author, [Oral, Co-author 10]

74. Thermoelectric Conversion Efficiency of Sulfide Mineral-based Single Legs

Yuta KIKUCHI (AIST), Makoto AIHARA (AIST), Xiaokai HU (AIST), Atsushi YAMAMOTO (AIST), Michihiro OHTA (AIST), Koichiro SUEKUNI (Hirosima Univ.), Toshiro TAKABATAKE (Hirosima Univ.)

34th International Conference on Thermoelectrics and 13th European Conference on Thermoelectrics (ICT&ECT2015), International Thermoelectric Society, Dresden,
73. Hierarchical Structuring of Thermoelectric Sulfides and Chalcogenides: From Materials to Modules

Michihiro OHTA (AIST)

AIST-ITRI Joint Symposium 2015, National Institute of Advanced Industrial Science and Technology (AIST) and Industrial Technology Research Institute of Taiwan (ITRI), Tsukuba, Japan, June 15, 2015

June 15, 2015, Oral, Presenter [Oral, Presenter 21]
2014

72. Nanostructured PbTe-Based Thermoelectric Generator

Michihiro OHTA (AIST), Priyanka JOOD (AIST), Masaru KUNII (AIST), Kazuo NAGASE (AIST), Hirotaka NISHIATE (AIST), Mercouri G. KANATZIDIS (Northwestern Univ./ANL), Atsushi YAMAMOTO (AIST)

2014 MRS Fall Meeting & Exhibit, Materials Research Society, Boston, Massachusetts, USA, November 30–December 5, 2014

December 5, 2014, Oral, Presenter [Oral, Presenter 20]

71. Misfit Layered Sulfides (LaS)_{1+m}TS_{2} (T: Cr, Nb) as Potential High Temperature Thermoelectric Materials

Priyanka JOOD (AIST), Michihiro OHTA (AIST), Hirotaka NISHIATE (AIST), Masaru KUNII (AIST), Atsushi YAMAMOTO (AIST), Oleg I. LEBEDEV (CRISMAT), David BERTHEBAUD (CRISMAT), Koichiro SUEKUNI (Hiroshima Univ.)

2014 MRS Fall Meeting & Exhibit, Materials Research Society, Boston, Massachusetts, USA, November 30–December 5, 2014


70. High-performance PbTe-based Thermoelectric Generators

Michihiro OHTA (AIST), Priyanka JOOD (AIST), Masaru KUNII (AIST), Kazuo NAGASE (AIST), Mercouri G. KANATZIDIS (Northwestern Univ./ANL), Atsushi YAMAMOTO (AIST)


August 26, 2014, Oral, Presenter 19

69. Misfit Layered Sulfides (LaS)_{1+m}TS_{2} (T = Cr, Nb) as Potential High Temperature Thermoelectric Materials

Priyanka JOOD (AIST), Michihiro OHTA (AIST), Hirotaka NISHIATE (AIST), Atsushi YAMAMOTO (AIST), Oleg I. LEBEDEV (CRISMAT), David BERTHEBAUD (CRISMAT), Koichiro SUEKUNI (Hiroshima Univ.)


68. 2014 ITS Outstanding Poster Award

Thermoelectric Properties of Misfit Layered Sulfides (LaS)_{1+m}TS_{2} (T = Cr, Nb) Prepared through CS_{2} Sulfurization
67. Thermoelectric Generators with High-performance Nanostructured PbTe Bulk Thermoelectric Materials
Kazuo NAGASE (AIST), Priyanka JOOD (AIST), Masaru KUNII (AIST), Hiroyuki TAKAZAWA (AIST), Mercouri G. KANATZIDIS (Northwestern Univ./ANL), Atsushi YAMAMOTO (AIST), Michihiro OHTA (AIST)
July 8, 2014, Poster, Co-author [Poster, Co-author 27]

66. Low Lattice Thermal Conductivity in Mineral-based Thermoelectric Materials: Homologous Series Pb₅Bi₆Se₁₄, Pb₃Bi₂S₆, and PbBi₂S₄
Michihiro OHTA (AIST), Duck Young CHUNG (ANL), Masaru KUNII (AIST), Mercouri G. KANATZIDIS (Northwestern Univ./ANL)
July 8, 2014, Oral, Oral, Presenter [Oral, Presenter 18]

65. Carrier Doping Effect on the Thermoelectric Properties of Synthetic Colusites
Koichiro SUEKUNI (Hiroshima Univ.), Fiseong S. KIM (Hiroshima Univ.), Hiromi I. TANAKA (Hiroshima Univ.), Michihiro OHTA (AIST), Atsushi YAMAMOTO (AIST), Toshiro TAKABATAKE (Hiroshima Univ.)
July 8, 2014, Poster, Presenter [Poster, Co-author 24]

64. Rapid Prototyping Platform of Thermoelectric Module using Novel Materials
Atsushi YAMAMOTO (AIST), Kazuo NAGASE (AIST), Masaru KUNII (AIST), Hiroyuki TAKAZAWA (AIST), Haruhiko OBARA (AIST), Xiaokai HU (AIST), Priyanka JOOD (AIST), Michihiro OHTA (AIST)
July 7, 2014, Invited, Co-author [Invited, Co-author 3]
### 2013

63. **High Temperature Thermoelectric Properties of the Misfit Layered Systems (LaS)$_{1+x}$TS$_2$ (T: Cr, Nb) Prepared through CS$_2$ Sulfurization**

 Priyanka JOOD (AIST), Michihiro OHTA (AIST), Masaru KUNII (AIST), Koichiro SUEKUNI (JAIST), Hirotaka NISHIATE (AIST), Toshihiro KUZUYA (Muroran-IT), Shinji HIRAI (Muroran-IT), Atsushi YAMAMOTO (Muroran-IT)

2013 MRS Fall Meeting & Exhibit, Materials Research Society, Boston, Massachusetts, USA, December 1–6, 2013

December 5, 2013, Oral, Co-author [Oral, Co-author 6]

62. **Enhancement of Thermoelectric Efficiency in Chevrel Phase Sulfides by Architecting the Atomic Cluster**

 Michihiro OHTA (AIST), Hirotaka NISHIATE (AIST), Masaru KUNII (AIST), Priyanka JOOD (AIST), Atsushi YAMAMOTO (AIST), Haruhiko OBARA (AIST)

2013 MRS Fall Meeting & Exhibit, Materials Research Society, Boston, Massachusetts, USA, December 1–6, 2013

December 2, 2013, Oral, Presenter [Oral, Presenter 17]

61. **Synthesis of La$_2$S$_3$ Single Crystals by SnS Flux Method and Their Thermoelectric Properties**

 Tatsuro SUHARA (Muroran-IT), Ruslan E NIKOLAEV (Nikolaev IIC SB RAS), Inga VASILYEVA (Nikolaev IIC SB RAS), Toshihiro KUZUYA (Muroran-IT), Shinji HIRAI (Muroran-IT), Michihiro OHTA (AIST)

2013 MRS Fall Meeting & Exhibit, Materials Research Society, Boston, Massachusetts, USA, December 1–6, 2013

December 2, 2013, Poster, Co-author, [Poster, Co-author 24]

60. **Synthesis of Sm$_x$S via a Solid Phase Reaction between Sm$_2$S$_3$ and SmH$_3$ and Their Thermoelectric Properties**

 Youhei TASAKI (Muroran-IT), Toshihiro KUZUYA (Muroran-IT), Shinji HIRAI (Muroran-IT), Vladimir V. KAMINSKII (Ioffe), Michihiro OHTA (AIST)

2013 MRS Fall Meeting & Exhibit, Materials Research Society, Boston, Massachusetts, USA, December 1–6, 2013

December 2, 2013, Poster, Co-author, [Poster, Co-author 23]

59. **Tetrahedrite Cu$_{12-x}$Ni$_x$Sb$_4$S$_{13}$: High-performance Thermoelectric Sulfosalts Mineral**

 Koichiro SUEKUNI (JAIST), Kojiro TSURUTA (JAIST), Masaru KUNII (AIST), Hirotaka NISHIATE (AIST), Eiji NISHIBORI (RIKEN), Sachiko MAKI (RIKEN), Michihiro OHTA (AIST), Atsushi YAMAMOTO (AIST), Mikio KOYANO (JAIST)

32nd International Conference on Thermoelectrics (ICT2013), International
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<th>Title</th>
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<td>56. 2nd Rank Poster Award</td>
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<tr>
<td>Thermoelectric Properties of Layered Sulfides (LnS)\textsubscript{1.2}CrS\textsubscript{2} (Ln: Rare Earth Metals) Prepared through CS\textsubscript{2} Sulfurization</td>
<td>Priyanka Jood (AIST), Michihiro Ohta (AIST), Masaru Kuni (AIST), Atsushi Yamamoto (AIST)</td>
<td>32nd International Conference on Thermoelectrics (ICT2013), International Thermoelectric Society, Kobe, Japan, June 30–July 4, 2013</td>
<td>July 2, 2013, Poster, Co-author [Poster, Co-author 22]</td>
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<td>55. Low-temperature Preparation of Layer-structured Thermoelectric Sulfides by CS\textsubscript{2} Sulfurization</td>
<td>Masaru Kuni (AIST), Michihiro Ohta (AIST), Priyanka Jood (AIST), Toshihiro Kuzuya (Muroran-IT), Shinji Hirai (Muroran-IT)</td>
<td>32nd International Conference on Thermoelectrics (ICT2013), International Thermoelectric Society, Kobe, Japan, June 30–July 4, 2013</td>
<td>July 1, 2013, Poster, Co-author [Poster, Co-author 21]</td>
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<td>54. Thermoelectric properties of TS\textsubscript{2} (T: Ti, Cr) based layer sulfides prepared by CS\textsubscript{2} sulfuration</td>
<td>Michihiro Ohta (AIST), Masaru Kuni (AIST), Toshihiro Kuzuya (Muroran-IT), Shinji Hirai (Muroran-IT), Priyanka Jood (AIST), Atsushi Yamamoto (AIST)</td>
<td>E-MRS 2013 Spring Meeting, European Materials Research Society, Strasbourg, France, May 27–31, 2013</td>
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| 53.  | Synthesis of TiS$_{2-x}$ Single Crystal by Sublimation Method and Its Thermoelectric Properties  
Ruslan E NIKOLAEV (Nikolaev IIC SB RAS), Toshihiro KUZUYA (Muroran-IT), Shinji HIRAI (Muroran-IT), Inga VASILYEVA (Nikolaev IIC SB RAS), Michihiro OHTA (AIST)  
2012 MRS Fall Meeting & Exhibit, Materials Research Society, Boston, Massachusetts, USA, November 25–30, 2012  
November 27, 2012, Poster, Co-author [Poster, Co-author 20] |
| 52.  | Synthesis of a Near-stoichiometric TiS$_{2-x}$ and Its Thermoelectric Properties  
Ryusuke YAMAMOTO (Muroran-IT), Toshihiro KUZUYA (Muroran-IT), Shinji HIRAI (Muroran-IT), Michihiro OHTA (AIST), Ruslan E NIKOLAEV (Nikolaev IIC SB RAS), Inga VASILYEVA (Nikolaev IIC SB RAS)  
2012 MRS Fall Meeting & Exhibit, Materials Research Society, Boston, Massachusetts, USA, November 25–30, 2012  
November 26, 2012, Poster, Co-author [Poster, Co-author 19] |
| 51.  | Poster Award  
Sintering of Cu$_2$ZnSnS$_4$ Synthesized by a Solid-phase Reaction of Sulfides and Its Thermoelectric Properties  
Shintaro MIKAMI (Muroran-IT), Shinji HIRAI (Muroran-IT), Vladimir V. KAMINSKII (Ioffe), Michihiro OHTA (AIST)  
2012 MRS Fall Meeting & Exhibit, Materials Research Society, Boston, Massachusetts, USA, November 25–30, 2012  
November 26, 2012, Poster, Co-author [Poster, Co-author 18] |
| 50.  | Thermoelectric Properties of Ternary Molybdenum Sulfides Containing Mo$_{3n}$S$_{3n+2}$ Clusters  
Michihiro OHTA (AIST), Hirotaka NISHIATE (AIST), Atsushi YAMAMOTO (AIST)  
July 11, 2012, Oral, Presenter [Oral, Presenter 14] |
| 49.  | High Temperature Thermoelectric Transport Measurement on Pure Iron  
Atsushi YAMAMOTO (AIST), Hirotaka NISHIATE (AIST), Masaru KUNII (AIST), Michihiro OHTA (AIST)  
July 10, 2012, Poster, Co-author [Poster, Co-author 17] |
| 48.  | High Thermoelectric Figure of Merit in Nanostructured p-type PbTe–MTe (M = Mg,
47. **High Thermoelectric Figure-of-merit in Nanostructured p-type PbTe–MgTe Bulk Materials**

Michihiro OHTA (Northwestern Univ./ANL/AIST), Kanishka BISWAS (Northwestern Univ.), Shih-Han LO (Northwestern Univ.), Jiaqing HE (Northwestern Univ.), Duck Young CHUNG (ANL), Vinayak P DRAVID (Northwestern Univ.), Mercouri G KANATZIDIS (Northwestern Univ./ANL)

2012 MRS Spring Meeting & Exhibit, Materials Research Society, San Francisco, California, USA, April 9–13, 2012

April 11, 2012, Poster, Presenter [Poster, Presenter 13]
46. Preparation of Cu2ZnSnS4 by Solid-Phase Reaction among Sulfides and Its Thermoelectric Properties
Shintaro MIKAMI (Muroran-IT), Toshihiro KUZUYA (Muroran-IT), Shinji HIRAI (Muroran-IT), Akira SAKAI (Muroran-IT), Ruslan NIKOLAEV (Nikolaev IIC SB RAS), Michihiro OHTA (AIST)
September 18, 2011, Poster, Co-author [Poster, Co-author 16]

45. Growing Method of Stoichiometric TiS2 Single Crystal
Ryusuke YAMAMOTO (Muroran-IT), Toshihiro KUZUYA (Muroran-IT), Shinji HIRAI (Muroran-IT), Ruslan NIKOLAEV (Nikolaev IIC SB RAS), Michihiro OHTA (AIST)
September 18, 2011, Poster, Co-author [Poster, Co-author 15]

44. Sulfide Thermoelectric Materials: Rare-earth Sulfides, Chevrel-phase Sulfides, and Misfit Layered Sulfides
Michihiro OHTA (AIST)
Workshop on Nanostructured Materials for Clean Energy, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan, August 11, 2011
August 11, 2011, Oral, Presenter [Oral, Presenter 13]

43. Thermoelectric Properties of Misfit Layer Sulfides (LnS)6CrS2 (Ln: La, Pr, Nd, Gd) Prepared by CS2 Sulfurization
Michihiro OHTA (AIST), Masaru KUNII (AIST), Atsushi YAMAMOTO (AIST), Kazou UENO (AIST)
30th International Conference on Thermoelectrics (ICT2011), International Thermoelectric Society, Traverse City, Michigan, USA, July 17-21, 2011

42. Thermoelectric Properties of Selenospinel Cu8−xFe4Sn12Se32
Koichiro SUEKUNI (JAIST), Masaru KUNII (AIST), Hirotaka NISHIATE (AIST), Michihiro OHTA (AIST), Atsushi YAMAMOTO (AIST), Mikio KOYANO (JAIST)
30th International Conference on Thermoelectrics (ICT2011), International Thermoelectric Society, Traverse City, Michigan, USA, July 17-21, 2011
41. Preparation of Misfit Layered Sulphides (LnS)\textsubscript{1.2}CrS\textsubscript{2} (Ln: La, Pr, Nd) by CS\textsubscript{2} Sulfurization and Their Thermoelectric Properties
   Michihiro OHTA (AIST), Masaru KUNII (AIST)
   2011 MRS Spring Meeting and Exhibit, Materials Research Society, San Francisco, California, USA, April 25-29, 2011
   April 27, 2011, Poster, Presenter [Poster, Presenter 12]

40. Preparation of Pb-filled Chevrel-Phase Sulphides and their Thermoelectric Properties
   Hirotaka NISHIATE (AIST), Michihiro OHTA (AIST), Atsushi YAMAMOTO (AIST), Haruhiko OBARA (AIST), Chul-Ho LEE (AIST), Kazuo UENO (AIST)
   35th International Conference and Exposition on Advanced Ceramics and Composites (ICACC’11), American Ceramic Society, Daytona Beach, Florida, USA, January, 23–28, 2011
   January, 26, 2011, Poster, Co-author [Poster, Co-author 13]
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<td>2010</td>
<td>Effect of Transition Metal Filling on Thermoelectric Properties of Chevrel Phase Sulfides</td>
<td>Michihiro OHTA (AIST), Atsushi YAMAMOTO (AIST), Haruhiko OBARA (AIST), Masaru KUNII (AIST), Hirotaka NISHIATE (AIST), Kazou UENO (AIST)</td>
<td>3rd International Congress on Ceramics (ICC3), Ceramic Society of Japan (CerSJ), Osaka, Japan, November 14–18, 2010</td>
<td>November 17, 2010</td>
<td>Oral, Presenter</td>
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<td>2010</td>
<td>Thermoelectric Properties of Self-Doped LnGd₁ₓS₃ (Ln: La, Sm) Prepared by CS₂ Sulfurization</td>
<td>Michihiro OHTA (AIST), Shinji HIRAI (Muroran-IT), Toshihiro KUZUYA (Muroran-IT)</td>
<td>Seventh Pacific Rim International Conference on Advanced Materials and Processing (PRICAM-7), Materials Australia (MA) , Cairns, Australia, August 2–6, 2010</td>
<td>August 7, 2010</td>
<td>Oral, Presenter</td>
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<td>2010</td>
<td>Preparation and Thermoelectric Properties of Self-doped LnGd₁ₓS₃ (Ln: La, Sm) and Mn-doped GdₓS₃</td>
<td>Michihiro OHTA (AIST), Shinji HIRAI (Muroran-IT), Vladimir V. SOKOLOV (Nikolaev IIC SB RAS), Toshihiro KUZUYA (Muroran-IT), Vladimir V. BAKOVETS (Nikolaev IIC SB RAS)</td>
<td>29th International Conference on Thermoelectrics (ICT2010), International Thermoelectric Society, Shanghai, China, May 30–June 3, 2010</td>
<td>June 1, 2010</td>
<td>Oral, Presenter</td>
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<td>2010</td>
<td>Thermoelectric Properties of TiS₂ Prepared by CS₂ Sulfurization</td>
<td>Shuhei SATOH (Muroran-IT), Massoud OMAR (Muroran-IT), Michihiro OHTA (AIST), Toshihiro KUZUYA (Muroran-IT), Shinji HIRAI (Muroran-IT)</td>
<td>29th International Conference on Thermoelectrics (ICT2010), International Thermoelectric Society, Shanghai, China, May 30–June 3, 2010</td>
<td>May 31, 2010</td>
<td>Poster, Co-author</td>
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<td>Shuhei SATOH (Muroran-IT), Toshihiro KUZUYA (Muroran-IT), Michihiro OHTA (AIST), Shinji HIRAI (Muroran-IT)</td>
<td>2010 MRS Spring Meeting &amp; Exhibit, Materials Research Society, San Francisco, California, USA, April 5–9, 2010</td>
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33. Formation Behavior and Thermoelectric Properties of LnCuS₂ (Ln: Pr, Nd, Sm and Gd)
   Massoud OMAR (Muroran-IT), Toshihiro KUZUYA (Muroran-IT), Shinji HIRAI (Muroran-IT), Michihiro OHTA (AIST)
   2009 MRS Fall Meeting & Exhibit, Materials Research Society, Boston, Massachusetts, USA, November 30–December 4, 2009
   December 2, 2009, Poster, Co-author [Poster, Co-author 9]

32. Thermoelectric Properties of Cu-Filled Chevrel-Phase Sulfides
   Michihiro OHTA (AIST), Atsushi YAMAMOTO (AIST), Haruhiko OBARA (AIST)
   11th International Conference on Advanced Materials (ICAM2009), International Union of Materials Research Societies (IUMRS), Brazilian Materials Research Society, Rio de Janeiro, Brazil, September 20–25, 2009
   September 22, 2009, Oral, Presenter [Oral, Presenter 8]

31. Microstructure and Thermoelectric Properties of Al-Doped ZnO Sintered Body
   Noburo SHIKATANI (Fukuoka-IT), Tatsuya MISAWA (Saga Univ.), Yuji KAWAKAMI (Saga-ITC), Michihiro OHTA (AIST)
   August 26, 2009, Poster, Co-author [Poster, Co-author 8]

30. Thermoelectric properties of Chevrel phases M₂Mo₆S₈ (M: Cu, Ni)
   Michihiro OHTA (AIST), Atsushi YAMAMOTO (AIST), Haruhiko OBARA (AIST)
   28th International Conference on Thermoelectrics and 7th European Conference on Thermoelectrics (ICT2009 & ECT2009), International Thermoelectric Society, Freiburg, Germany, July 26–30, 2009
   July 27, 2009, Poster, Presenter [Poster, Presenter 11]

29. Thermoelectric Properties of Bi₂Te₃ Based Thin Films with Fine Grains Fabricated by Pulsed Laser Deposition
   Haruhiko OBARA (AIST), Shun HIGOMO (AIST/Tokyo Univ. of Sci.), Michihiro OHTA (AIST), Atsushi YAMAMOTO (AIST), Kazuo UENO (AIST)
   28th International Conference on Thermoelectrics and 7th European Conference on Thermoelectrics (ICT2009 & ECT2009), International Thermoelectric Society, Freiburg, Germany, July 26–30, 2009

28. Thermoelectric properties of self-doped NdGd₁₆S₃ prepared by CS₂ sulfurization
   Michihiro OHTA (AIST), Shinji HIRAI (Muroran-IT), Toshihiro KUZUYA (Muroran-IT)
Thermoelectric Properties of LnGd$_{1-x}$S$_3$ (Ln: La, Ce, Nd, Sm) Prepared by CS$_2$ Sulfurization

Michihiro OHTA (AIST), Shinji HIRAI (Muracion-IT)

27th International Conference on Thermoelectrics (ICT2008), International Thermoelectric Society, Corvalis, Oregon, USA, August 3–7, 2008

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<td>Michihiro OHTA (AIST), Yasushi HORIGUCHI (Muroran-IT), Shinji HIRAI (Muroran-IT)</td>
<td>Russia-Japan Seminar on Advanced Materials and Processing, Nikolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk, Russia, September 15–20, 2007</td>
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| **20.** Synthesis and Thermoelectric Properties of Rare-Earth Sesquisulfides  
*Michihiro OHTA (Muroran-IT), Shinji HIRAI (Muroran-IT), Kazuyoshi SHIMAKAGE (Muroran-IT)*  
16th IKETANI Conference 2006: Electrochemistry and Thermodynamics on Materials Processing for Sustainable Production: Masuko Symposium, Iketani Conference Organizing Committee and University of Tokyo, Meguro, Tokyo, November 12–16, 2006  
November 13, 2006, Invited, Co-author [Invited, Co-author 1] |
| **19.** Thermoelectric Properties of Gadolinium and Terbium Sesquisulfides Prepared by their Oxides with Carbon Disulfide  
*Michihiro OHTA (Muroran-IT), Haibin YUAN (Muroran-IT), Shinji HIRAI (Muroran-IT), Yoshiyuki YAJIMA (NIMS), Toshiyuki NISHIMURA (NIMS), Takao MORI (NIMS), Kazuyoshi SHIMAKAGE (Muroran-IT)*  
6th International Conference on f-elements (ICFe2006), Wrocław, Poland, September 4–9, 2006  
| **18.** Thermoelectric properties of GdNdS$_{3-x}$ prepared by reaction of oxides with CS$_2$  
*Michihiro OHTA (AIST), Yasushi HORIGUCHI (Muroran-IT), Shinji HIRAI (Muroran-IT)*  
25th International Conference on Thermoelectrics (ICT2006), International Thermoelectric Society, Vienna, Austria, August 6–10, 2006  
August 9, 2006, Poster, Presenter [Poster, Presenter 7] |
| **17.** Fundamental Experimental Work on Hydrological Cycling Type Snow Melting System by the Use of Geothermal Energy  
*Hideo ASAHI (Muroran-IT), Kunio KAWAUCHI (Muroran-IT), Michihiro OHTA (Muroran-IT), Shinji HIRAI (Muroran-IT)*  
Joint Seminar on Environmental Science and Disaster Mitigation Research 2006, Muroran Institute of Technology and Western Washington University, Muroran, Japan, March 15, 2006  
March 15, 2006, Poster, Co-author [Poster, Co-author 5] |
| **16.** Preparation of Ln$_2$S$_3$ (Ln: Eu–Yb) Powders by Sulfurization of Their Oxides, Oxalates, Acetates, Carbonates, and Nitrates  
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Japan-Russia Seminar on Sulfide Materials Processing, Tohoku University, Sendai, Japan, March 3, 2006 |
15. Lanthanide Sesquisulfides as Thermoelectric Materials

Michihiro OHTA (Muroran-IT), Shinji HIRAI (Muroran-IT), Kazuyoshi SHIMAKAG (Muroran-IT), Toshiyuki NISHIMURA (NIMS), Yoichiro UEMURA (NIMS)

Japan-Russia Seminar on Sulfide Materials Processing, Tohoku University, Sendai, Japan, March 3, 2006

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<td>24th Rare Earth Research Conferences (RERC2005), Keystone, Colorado, USA, June 26–30, 2005</td>
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Toshiyuki NISHIMURA (NIMS), Yoichiro UEMURA (NIMS), Kazuyoshi SHIMAKAGE (Muroran-IT)  
Rare Earths 2004 in Nara, The Rare Earth Society of Japan, Nara, Japan, November 7–12, 2004  
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| **9.** Absorption and Emission of CO$_2$ Gas Using Li$_2$ZrO$_3$ Powder Prepared by Sol-Gel Process  
Yoshinori YOSHIMURA (Muroran-IT), Michihiro OHTA (Muroran-IT), Shinji HIRAI (Muroran-IT), Hideyasu ASAHI (Muroran-IT), Kazuyoshi SHIMAKAGE (Muroran-IT)  
October 21, 2004, Poster, Co-author [Poster, Co-author 3] |
| **8.** Hydroxyapatite Coating on Silk Fabric by the Sol-Gel Process  
Shinji HIRAI (Muroran-IT), Michihiro OHTA (Muroran-IT), Shinya YOKOI (Muroran-IT), Yahushi TAMADA (NIAS), Kazuyoshi SHIMAKAGE (Muroran-IT)  
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| **7.** Synthesis and Sintering of Europium Sulfides and Ytterbium Sulfides  
Haibin YUAN (Muroran-IT), Michihiro OHTA (Muroran-IT), Shinji HIRAI (Muroran-IT), Kazuyoshi SHIMAKAGE (Muroran-IT), Toshiyuki NISHIMURA (NIMS)  
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| **6.** Preparations of Terbium Sesquisulfide and Holmium Sesquisulfide by Sulfurization of Their Oxide Using CS$_2$ Gas  
Haibin YUAN (Muroran-IT), Michihiro OHTA (Muroran-IT), Shinji HIRAI (Muroran-IT), Toshiyuki NISHIMURA (NIMS), Kazuyoshi SHIMAKAGE (Muroran-IT)  
2004 International Conference on Rare Earth Research and Application |
5. Thermoelectric Properties of Titanium-, Zirconium-, Hafnium-, and Alkali-metal-doped Lanthanum Sesquisulfides with Th$_3$P$_4$ Type Structure

Michihiro OHTA (Muroran-IT), Shinji HIRAI (Muroran-IT), Toshiyuki NISHIMURA (NIMS), Yoichiro UEMURA (NIMS)


July 28, 2004, Poster, Presenter [Poster, Presenter 5]
4. Phase Transformation from Tetragonal Phase to Cubic Phase Due to Addition of Titanium in Lanthanum Sesquisulfide
   Michihiro OHTA (Muroran-IT), Shinji HIRAI (Muroran-IT), Shigenori MORITA (NIMS), Toshiyuki NISHIMURA (NIMS), Yoichiro UEMURA (NIMS)
   5th International Conference on f-elements (ICFE’S), Geneva, Switzerland, August 24–29, 2003

3. Preparations of Ln$_2$S$_3$ (Ln: La, Pr, Nd, Sm) Powders by Sulfurization of Oxide Powders Using CS$_2$ Gas
   Michihiro OHTA (Muroran-IT), Haibin YUAN (Muroran-IT), Shinji HIRAI (Muroran-IT), Yoichiro UEMURA (NIMS), Kazuyoshi SHIMAKAGE (Muroran-IT)
   5th International Conference on f-elements (ICFE’S), Geneva, Switzerland, August 24–29, 2003
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2. Influence of Phase on Thermoelectric Properties in Lanthanum Sesquisulfide Doped with Titanium
   Michihiro OHTA (Muroran-IT), Shinji HIRAI (Muroran-IT), Shigenori MORITA (NIMS), Toshiyuki NISHIMURA (NIMS), Yoichiro UEMURA (Muroran-IT)
   22nd International Conference on Thermoelectrics (ICT2003), International Thermoelectric Society, Montpellier, France, August 17–21, 2003,
   August 18, 2003, Poster, Presenter [Poster, Presenter 2]

2001
1. Localized Relaxation in Stabilized Zirconia
   Michihiro OHTA (Kyutech), Kenta KIRIMOTO (Kyutech), Kouji NOBUGAI (Osaka Univ.), J. Keith WIGMORE (Lancaster Univ.), Tatsuro MIYASATO (Kyutech)
   10th International Conference on Phonon Scattering in Condensed Matter, Hanover, New Hampshire, USA, August 12–17, 2001
   August 13, 2001, Poster, Presenter [Poster, Presenter 1]